CLAIMS

- A method for treatment of neurological or immunological
- 2 disorders in a patient comprising the step of stimulating
- 3 secretion of pancreatic juices in said patient.
- 1 2. The method of claim 2 wherein the step of stimulating
- 2 secretion of pancreatic juices comprises the step of
- 3 administering to said patient an effective amount of secretin.
- 1 3. The method of claim 2 wherein said effective amount of
- 2 secretin is administered by infusion.
- 4. The method of claim 3 wherein administering said
- 2 effective amount of secretin by infusion includes the step of
- 3 intravenously infusing secretin in an amount of about 2 clinical
- 4 units (CU) per kilogram (kg) of body weight.
- 1 5. The method of claim 2 wherein said effective amount of
- 2 secretin is administered transdermally.
- 1 6. The method of claim 5 wherein administering said
- 2 effective amount of secretin transdermally includes the steps of:
- applying a transdermal carrier substance to a portion of the
- 4 skin of said patient; and
- 5 applying crystalline secretin in said effective amount onto
- 6 said transdermal carrier substance.

- 1 7. The method of claim 6 wherein said transdermal carrier
- 2 substance includes dimethyl sulfoxide (DMSO).
- 1 8. The method of claim 6 wherein said effective amount of
- 2 secretin includes between 5 and 20 clinical units (CU) of
- 3 crystalline secretin per dose.
- 9. The method of claim 6 wherein said transdermal carrier
- 2 substance is selected from the group consisting of a gel and a
- 3 lotion.
- 1 10. The method of claim 5 wherein administering secretin
- 2 transdermally includes administering said effective amount of
- 3 secretin with a patch to be applied to a portion of the skin of
- 4 said patient.
- 1 11. The method of claim 5 wherein administering secretin
- 2 transdermally includes administering said effective amount of
- 3 secretin using acoustic waves causing said secretin to permeate a
- 4 skin surface of said patient.
- 1 12. The method of claim 2 wherein said effective amount of
- 2 secretin is administered orally.
- 1 13. The method of claim 12 wherein said effective amount of
- 2 secretin is administered orally using an oral carrier selected
- 3 from the group consisting of a tablet, capsule or lozenge.

- 1 14. The method of claim 2 wherein said effective amount of
- 2 secretin is administered using a suppository.
- 1 15. The method of claim 2 wherein said effective amount of
- 2 secretin is administered by inhalation.
- 1 16. The method of claim 2 wherein said neurological
- 2 disorders include autistic spectrum disorders.
- 1 17. The method of claim 2 wherein said effective amount of
- 2 secretin includes an amount of secretin sufficient to increase
- 3 serotonin levels in the brain of said patient.
- 1 18. The method of claim 1 wherein stimulating secretion of
- 2 said pancreatic juices increases at least one neuropeptide
- 3 hormone select from the group consisting of serotonin, dopamine
- 4 and CCK levels in said patient.
- 1 19. The method of claim 1 wherein the step of stimulating
- 2 secretion of pancreatic juices includes the step of causing.
- 3 secretion of an effective amount of secretin in said patient.
- 1 20. The method of claim 19 wherein the step or causing
- 2 secretion of an effective amount of secretin in said patient
- 3 includes stimulating the duodenum of said patient to produces
- 4 secretin.

- 1 21. A composition for treatment of neurological or
- 2 immunological disorders in a patient comprising an effective
- 3 amount of secretin and a physiologically acceptable carrier.
- 1 22. The composition of claim 21 wherein said
- 2 physiologically acceptable carrier includes a transdermal carrier
- 3 substance.
- 1 23. The composition of claim 22 wherein said transdermal
- 2 carrier substance includes dimethyl sulfoxide (DMSO).
- 1 24. The composition of claim 23 wherein said effective
- 2 amount of secretin includes about 15 clinical units (CU) of
- 3 crystalline secretin per dose.
- 1 25. The composition of claim 21 wherein said
- 2 physiologically acceptable carrier includes sodium chloride for
- 3 dissolving said effective amount of secretin.
- 1 '26. The composition of claim 25 wherein said effective.
- 2 amount of secretin includes about 2 clinical units (CU) per
- 3 kilogram (kg) of body weight of said patient per dose.
- 1 27. The composition of claim 21 wherein said
- 2 physiologically acceptable carrier includes an oral carrier.
- 1 28. The composition of claim 21 wherein said
- 2 physiologically acceptable carrier includes an inhalable carrier.

- 1 29. The composition of claim 21 wherein said composition is
- 2 for the treatment of autism.

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- 1 30. A method for the treatment of autism comprising the
- 2 step of administering to said patient an effective amount of
- 3 secretin,
- 1 31. The method of claim 30 wherein said effective amount of
- 2 secretin is administered by infusion.
- 1 32. The method of claim 31 wherein administering said
- 2 effective amount of secretin by infusion includes the step of
- 3 intravenously transfusing secretin in an amount of about 2
- 4 clinical units (CU) per kilogram (kg) of body weight per dose.
- 1 33. The method of claim 30 wherein said effective amount of
- 2 secretin is administered transdermally.
- 1 34. The method of claim 33 wherein administering said
- 2 effective amount of secretin transdermally includes the steps of:
- applying a transdermal carrier substance to a portion of the
- 4 skin of said patient; and
- applying crystalline secretin in said effective amount onto
- 6 said transdermal carrier substance.
- 1 35. The method of claim 34 wherein said transdermal carrier
- 2 substance includes dimethyl sulfoxide (DMSO).
- 1 36. The method of claim 35 wherein said effective amount of
- 2 secretin includes about 15 clinical units (CU) of crystalline
- 3 secretin per dose.